

# Agricultural Loading Rate Review Subgroup: Phase 6.0

Agricultural Modeling Subcommittee (AMS)

March 25, 2015

Room 2013 – Mathias Lab

Smithsonian Environmental Research Center (SERC)

647 Contees Wharf Road • Edgewater, Maryland 21037

Conference line: 866.299.3188 Code: 410.267.5731

Webinar link: <https://epa.connectsolutions.com/agwg/>

## Subgroup Review Process

### Subgroup Membership

Name	Affiliation	Email	Phone
<a href="#">Tom Jordan, Chair</a>	SERC	<a href="mailto:jordanth@si.edu">jordanth@si.edu</a>	(443) 482-2209
Jack Meisinger	ARS	<a href="mailto:John.Meisinger@ars.usda.gov">John.Meisinger@ars.usda.gov</a>	(301) 504-5276
Ken Staver	UMD	<a href="mailto:kstaver@umd.edu">kstaver@umd.edu</a>	(410) 827-8056 ext.111
Wade Thomason	VT	<a href="mailto:wthomaso@vt.edu">wthomaso@vt.edu</a>	540-231-2988
Doug Beegle	PSU	<a href="mailto:dbb@psu.edu">dbb@psu.edu</a>	(814) 863-1016
John Spargo	PSU	<a href="mailto:jts29@psu.edu">jts29@psu.edu</a>	(814) 865-9155
Greg Albrecht	NYS-DAM	<a href="mailto:greg.albrecht@agriculture.ny.gov">greg.albrecht@agriculture.ny.gov</a>	(607) 330-1242
Gene Yagow	VT	<a href="mailto:eyagow@vt.edu">eyagow@vt.edu</a>	(540) 231-2538
Jim Cropper	NEPC	<a href="mailto:jbcropper@yahoo.com">jbcropper@yahoo.com</a>	(336) 855-7594
Curt Dell	ARS	<a href="mailto:curtis.dell@ars.usda.gov">curtis.dell@ars.usda.gov</a>	(814) 863-0984
Don Weller	SERC	<a href="mailto:wellerd@si.edu">wellerd@si.edu</a>	(443) 482-2214
<u>Technical Support Staff</u>			
<a href="#">Gary Shenk</a>	EPA	<a href="mailto:gshenk@chesapeakebay.net">gshenk@chesapeakebay.net</a>	(410) 267-5745
Matt Johnston	UMD	<a href="mailto:mjohnston@chesapeakebay.net">mjohnston@chesapeakebay.net</a>	(410) 267-5707
Mark Dubin	UMD	<a href="mailto:mdubin@chesapeakebay.net">mdubin@chesapeakebay.net</a>	(410) 267-9833
Emma Giese	CRC	<a href="mailto:egiese@chesapeakebay.net">egiese@chesapeakebay.net</a>	(410) 295-1380
Sally Szydiowski	WS	<a href="mailto:sallyb@waterstewardshipinc.org">sallyb@waterstewardshipinc.org</a>	(443) 699-5173
Olivia Devereux	Tt	<a href="mailto:olivia@devereuxconsulting.com">olivia@devereuxconsulting.com</a>	(301) 325-7449

### Literature Review Sources

The subgroup will consider and review the published and grey agricultural literature sources identified and provided by Tetra Tech and Water Stewardship through their respective projects. The Tetra Tech project is complete and the draft report provided. The Water Stewardship project is not complete as of this time and additional literature citations and data are expected to be identified and included in their final report due in April of 2015.

#### Literature Review Process Proposal

The subgroup will be provided published and grey agricultural literature sources and research data identified by Tetra Tech and Water Stewardship to initiate the literature review process during the March 25th meeting. The following review process is proposed for use by the subgroup to develop recommendations for review by the Agricultural Modeling Subcommittee on April 3, 2015.

1. An overview and discussion of provided literature sources, and group consensus on general recommendations will be held during the early afternoon of March 25th. The subgroup's review process and recommendation components will be finalized.
2. Proposed to identify small focused review groups within the membership of the subgroup based on field of expertise.
3. Proposed to assign literature reviews to groups based on Phase 6.0 general land use groupings; see Strawman example.
4. Proposed that review groups will focus on Tetra Tech and Water Stewardship citations and data identified to their assigned land use grouping.
5. Proposed that review group recommendations will assign each citation or research data set a pass/fail/maybe designation. Designations would be based on:
  - a.) relevance to land management activities, soils, and environmental conditions in the Chesapeake Bay watershed
  - b.) research limitations or process concerns with the research paper or project
6. Proposed that the review groups will consider if feasible, providing a range of relative loading values for assigned Phase 6.0 land uses based on recommended standard "pass" citations or research data. Phase 5.3.2 relative loading values could serve as a reference starting point.
7. Recommendations from the review groups will be provided by Wednesday, April 1st for collation of the material into one document for subgroup review for fatal flaws.
8. The collated recommendations will be presented to the Agricultural Modeling Subcommittee (AMS) on Friday, April 3rd for approval. Tom Jordan will present the recommendations as chair of the review subgroup. Curt Dell serves as the Chair of the AMS and several members of the subgroup are also members of the AMS.
9. The AMS approved recommendations will be provided to the Agriculture Workgroup (AgWG) for review and approval in early April.
10. The CBPO modeling team will utilize the recommendations for developing Phase 6.0 beta version relative loading rates for agricultural land uses.
11. The CBPO will provide the relative loading rates for Phase 6.0 beta version agricultural land uses to the Modeling Workgroup for approval on April 22-24, 2015

The subgroup recommendations are proposed to be utilized in the development of relative loading rates for the Phase 6.0 beta version agricultural land uses. A second meeting of the subgroup is being proposed in late 2015 /early 2016 to review the Phase 6.0 beta version agricultural loading values and provide a recommendation on potential modifications to how the citations and research data are utilized to develop the relative loading values, as well as the actual beta version loading values themselves. The recommendations would be used to modify the beta version for development of the final Phase 6.0 version in late 2016.

The subgroup's recommendations are also proposed to be used by Tetra Tech to develop a final literature review report for collating the findings of the two projects into one agricultural land use reference for guiding the development of beta and final Phase 6.0 agricultural relative loading rates.

#### Phase 6.0 Beta Decision Timeline

1. Agricultural Modeling Subcommittee Meeting - March 13  
Approval of land use list – (completed)
2. Agriculture Workgroup Meeting - March 18  
Approval of land use list – (completed)
3. Agricultural Loading Rate Review Subgroup Meeting – March 25  
Develop small focused review groups to provide recommendations on literature designations and relative loading rate value ranges.
4. Review Group Recommendations - April 1  
Group recommendations collated by the CBPO for fatal flaw review by the subgroup.
5. Agricultural Modeling Subcommittee Meeting - April 3  
Review and approval of subgroup recommendations for use in developing beta land use loading rates by CBPO.
6. Agriculture Workgroup Meeting - April 16 (or earlier conference call)  
Review and approval of AMS subgroup recommendations for use in developing beta land use loading rates by the CBPO, and for recommendation to the Modeling Workgroup.
7. CBPO Modeling Team - Early-Mid April  
Utilize Tetra Tech and review subgroup recommendations to develop beta land use loading rates for recommendation to the Modeling Workgroup.
8. CBP Modeling Workgroup Meeting - April 22-24  
Approval of draft beta land use list and loading targets.
9. Schedule second meeting of the Agricultural Loading Rate Review Subgroup - TBD